Journal of Non-Crystalline Solids 94 (1987) 417–420
North-Holland, Amsterdam

AUTHOR INDEX

Ance, C., see Berger 94 (1987) 353
Ando, T., see McKittrick 94 (1987) 163
Angell, C.A., see Phifer 94 (1987) 315
Apostolov, A., C. Christov, M. Mikhov, H. Sassik and V. Skumryev, Structural investigations of rapidly quenched Gd_4Co_3 and Gd_4Fe_3 alloys 94 (1987) 195
Asano, Y., D.S. Baer and R.K. Hanson, Substrate temperature dependence of SiH concentration on silane plasmas for amorphous silicon film deposition 94 (1987) 5

Baer, D.S., see Asano 94 (1987) 5
Balzarotti, A., see Purans 94 (1987) 336
Banerjee, P.K., J.M.T. Pereira, G.A. Hanidu and S.S. Mitra, The effects of nitrogen incorporation on the properties of RF sputtered a-Si_xGe_{1-x} alloys 94 (1987) 261
Banerjee, P.K., see Pereira 94 (1987) 283
Berger, J.M., C. Ance, F. de Chelle, J.P. Ferraton, A. Donnadieu, J.I. Cisneros and J.H. Dias da Silva , Temperature effects on the optical properties of amorphous hydrogenated silicon nitrogen alloys prepared by RF sputtering 94 (1987) 353
Bogomolova, L.D., F. Caccavale, V.A. Jachkin and N.A. Krasil'nikova , EPR of VO^{2+} ions in heavy-metal fluoride glasses 94 (1987) 302
Boilot, J.P., see Pouxviel 94 (1987) 374
Bokhari, W.H. and F.M. Nazar, Effect of applied field and composition on the band gap in cadmium phosphate glasses – a reanalysis 94 (1987) 271
Boukenter, A., see Champagnon 94 (1987) 216
Bradley, J.P., see Lu 94 (1987) 45
Bray, P.J., see Zhong 94 (1987) 122
Brower Jr, W.E., see Kowbel 94 (1987) 70

Caccavale, F., see Bogomolova 94 (1987) 302
Champagnon, B., A. Boukenter, E. Duval, C. Mai, G. Vigier and E. Rodek, Early stages of nucleation of Zerodur glass. Very low frequency Raman scattering and small angle X-ray scattering investigations 94 (1987) 216
Cherlov, G.B., S.P. Freidman, E.Z. Kurmaev, G. Viech and V.A. Gubanov, On the interpretation of X-ray spectra of amorphous and crystalline SiO_2 94 (1987) 276
Ching, W.Y., see Murray 94 (1987) 133
Ching, W.Y., see Murray 94 (1987) 144
Chiodelli, G., see Villa 94 (1987) 101
Christov, C., see Apostolov 94 (1987) 195
Cisneros, J.I., see Berger 94 (1987) 353
Couty, R., see Velde 94 (1987) 238

De Chelle, F., see Berger 94 (1987) 353
Dias da Silva, J.H., see Berger 94 (1987) 353
Donnadieu, A., see Berger 94 (1987) 353
Duval, E., see Champagnon 94 (1987) 216

El-Mallawany, R.A., see Hampton 94 (1987) 307
Erkoç, Ş., T. Halicioglu and W.A. Tiller, Computer simulation of thin amorphous Si films on crystalline Si substrates 94 (1987) 28

0022-3093/87/$03.50 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

Feller, S., see Lim 94 (1987) 36
Ferraton, J.P., see Berger 94 (1987) 353
Fisher, C., see Lu 94 (1987) 45
Freidman, S.P., see Cherlov 94 (1987) 276
Fukumi, K. and S. Sakka, Raman spectroscopic study of the structural role of alkaline earth ions in alkaline earth gallate glasses 94 (1987) 251

Greenblatt, M., see Hayri 94 (1987) 387
Gubanov, V.A., see Cherlov 94 (1987) 276

Halicioglu, T., see Erkoç 94 (1987) 28
Hampton, R.N., W. Hong, G.A. Saunders and R.A. El-Mallawany, The electrical conductivity of pure and binary TeO_2 glasses 94 (1987) 307
Hanidu, G.A., see Banerjee 94 (1987) 261
Hanson, R.K., see Asano 94 (1987) 5
Hayri, E.A. and M. Greenblatt, The preparation and ionic conductivity of sol–gels in the Li_2O–P_2O_5–SiO_2 system 94 (1987) 387
He, H., Computer generated two-dimensional continuous random networks 94 (1987) 22
Hong, W., see Hampton 94 (1987) 307
Hope, S.R., see Pathmanathan 94 (1987) 186

Isakov, S.L., see Ishmaev 94 (1987) 11
Ishmaev, S.N., S.L. Isakov, I.P. Sadikov, E. Sváb, L. Kõszegi, A. Lovas and Gy. Mészáros, Direct evidence for B–B contact in amorphous Ni_2B from high-resolution neutron diffraction 94 (1987) 11

Jachkin, V.A., see Bogomolova 94 (1987) 302
Jain, A.K., see Sharma 94 (1987) 294
Johari, G.P., see Pathmanathan 94 (1987) 186

Kalonji, G., see McKittrick 94 (1987) 163
Kamiya, K., see Tanaka 94 (1987) 365
Khanna, Y.P., see Martis 94 (1987) 209
Kinser, D.L., see Magruder III 94 (1987) 56
Koch, C.C., see Lee 94 (1987) 88
Kõszegi, L., see Ishmaev 94 (1987) 11
Kowbel, W. and W.E. Brower Jr, Simulation of a metalllic glass surface via ab initio calculations 94 (1987) 70
Krasil'nikova, N.A., see Bogomolova 94 (1987) 302
Kui, H-W. and D. Turnbull, The heat capacity of $Ni_{40}Pd_{40}P_{20}$ in the liquid, glass and crystallized states 94 (1987) 62
Kuldeep, see Sharma 94 (1987) 294
Kurmaev, E.Z., see Cherlov 94 (1987) 276
Kurokawa, Y., see Suzuki 94 (1987) 160

Lakshman, S.V.J. and Y.C. Ratnakaram, Optical studies of erbium(III) in certain sulphate glasses 94 (1987) 222
Lau, B.W., see Yu 94 (1987) 203
Laval, J.P., see Phifer 94 (1987) 315
Lee, P.Y. and C.C. Koch, The formation and thermal stability of amorphous Ni–Nb alloy powder synthesized by mechanical alloying 94 (1987) 88
Lim, H.C. and S. Feller, The density of low metal content rubidium, cesium, silver, and thallium borate glasses related to atomic arrangements 94 (1987) 36
Lovas, A., see Ishmaev 94 (1987) 11

Lu, G., C. Fisher and J.P. Bradley, A source of continuous scattering in fluoride glasses: Transition element phosphides 94 (1987) 45
Lucas, J., see Phifer 94 (1987) 315
Lynn, J.W., see Yu 94 (1987) 203

Magruder III, R.H., S. Morgan, D.L. Kinser and R.A. Weeks, Raman studies of the GeO_2 glass preparation history 94 (1987) 56
Mai, C., see Champagnon 94 (1987) 216
Martis, R.J.J., T.J. Taylor and Y.P. Khanna, Thermal properties and the structural relaxation of $Fe_{78}B_{13}Si_9$ amorphous alloy ribbon 94 (1987) 209
Matsuda, T., see Mizutani 94 (1987) 345
Matsuoka, M., see Tanaka 94 (1987) 365
Mazzoldi, P. and A. Miotello, Ionic conductivity in binary alkali silicate system: A phenomenological model 94 (1987) 175
Mazzoldi, P., see Miotello 94 (1987) 181
McKittrick, J., G. Kalonji and T. Ando, Crystallization of a rapidly solidified Al_2O_3–ZrO_2 eutectic glass 94 (1987) 163
Medvedev, N.N. and Yu.I. Naberukhin, Shape of the Delaunay simplices in dense random packings of hard and soft spheres 94 (1987) 402
Menushenkov, A., see Purans 94 (1987) 336
Mészáros, Gy., see Ishmaev 94 (1987) 11
Mikhov, M., see Apostolov 94 (1987) 195
Miotello, A., see Mazzoldi 94 (1987) 175
Miotello, A. and P. Mazzoldi, Ionic conductivity in mixed-alkali silicate glasses: A phenomenological model 94 (1987) 181
Mitra, S.S., see Banerjee 94 (1987) 261
Mitra, S.S., see Pereira 94 (1987) 283
Mizutani, U. and T. Matsuda, Resistivity, Hall coefficient and thermopower in $Mg_{70}Cu_{30-x}Zn_x$ ($0 \leqslant x \leqslant 30$) metallic glasses 94 (1987) 345
Morgan, S., see Magruder III 94 (1987) 56
Motta, N., see Purans 94 (1987) 336
Mukhopadhyay, P., see Sharma 94 (1987) 294
Murray, R.A., L.W. Song and W.Y. Ching, Structural models for $(Na_2O)_x(SiO_2)_{1-x}$ glasses with periodic boundaries 94 (1987) 133
Murray, R.A. and W.Y. Ching, Electronic structure of sodium silicate glasses 94 (1987) 144

Naberukhin, Yu.I., see Medvedev 94 (1987) 402
Nazar, F.M., see Bokhari 94 (1987) 271
Nishida, T. and Y. Takashima, Application of Mössbauer spectroscopy and DTA to a structural study of semiconducting P_2O_5–V_2O_5 glasses 94 (1987) 229

Onozato, K., see Suzuki 94 (1987) 160

Pathmanathan, K., S.R. Hope and G.P. Johari, The dielectric study of superionic conduction in 0.5 AgI–0.5 $AgPO_3$ glass 94 (1987) 186
Pereira, J.M.T., see Banerjee 94 (1987) 261
Pereira, J.M.T., P.K. Banerjee and S.S. Mitra , Structural, optical and electrical properties of RF-sputtered a-SiGe:H:O alloys 94 (1987) 283
Phifer, C.C., C.A. Angell, J.P. Laval and J. Lucas , A structural model for prototypical fluorozirconate glass 94 (1987) 315
Pouxviel, J.C. and J.P. Boilot, Kinetic simulations and mechanisms of the sol–gel polymerization 94 (1987) 374
Purans, J., A. Balzarotti, N. Motta and A. Menushenkov, EXAFS and XANES studies of local order in oxide glasses: manganese impurity defects and vanadium low-symmetry complexes 94 (1987) 336

Ratnakaram, Y.C., see Lakshman 94 (1987) 222
Rodek, E., see Champagnon 94 (1987) 216

Sadikov, I.P., see Ishmaev 94 (1987) 11
Sakka, S., see Fukumi 94 (1987) 251
Sassik, H., see Apostolov 94 (1987) 195
Saunders, G.A., see Hampton 94 (1987) 307
Savransky, S.D., Bipolaronic superconductivity in chalcogenide glasses 94 (1987) 412
Scagliotti, M., see Villa 94 (1987) 101
Sharma, S.K., P. Mukhopadhyay, Kuldeep and A.K. Jain, Measurements of Au diffusion rates in amorphous $Fe_{80}B_{20}$, $Fe_{82}B_{18}$ and $Zr_{61}Ni_{39}$ by Auger electron spectroscopy 94 (1987) 294
Skumryev, V., see Apostolov 94 (1987) 195
Song, L.W., see Murray 94 (1987) 133
Spierings, G.A.C.M., Optical absorption of Ag^+ ions in $11(Na,Ag)_2O \cdot 11B_2O_3 \cdot 78SiO_2$ glass 94 (1987) 407
Suzuki, F., K. Onozato and Y. Kurokawa, Gas permeability of a porous alumina membrane prepared by the sol–gel process (aluminium iso-propoxide) 94 (1987) 160
Sváb, E., see Ishmaev 94 (1987) 11

Takashima, Y., see Nishida 94 (1987) 229
Tanaka, K., K. Kamiya, M. Matsuoka and T. Yoko, ESR study of a sol–gel-derived amorphous Fe_2O_3–SiO_2 system 94 (1987) 365
Taylor, T.J., see Martis 94 (1987) 209
Tiller, W.A., see Erkoç 94 (1987) 28
Turnbull, D., see Kui 94 (1987) 62

Velde, B. and R. Couty, High-pressure infrared spectra of silica glass and quartz 94 (1987) 238
Viech, G., see Cherlov 94 (1987) 276
Vigier, G., see Champagnon 94 (1987) 216
Villa, M., M. Scagliotti and G. Chiodelli, Short range order in the network of the borophosphate glasses: A ^{31}P NMR-MAS (Magic Angle Spinning) study 94 (1987) 101

Weeks, R.A., see Magruder III 94 (1987) 56

Yoko, T., see Tanaka 94 (1987) 365
Yu, S.C., J.W. Lynn and B.W. Lau, X-ray diffraction studies of amorphous $(Fe_{1-x}Ni_x)_{77}Si_{10}B_{13}$ alloys 94 (1987) 203

Zhong, J. and P.J. Bray, Determination of gallium coordination in cesium gallate glasses by high-resolution pulsed NMR 94 (1987) 122

Journal of Non-Crystalline Solids 94 (1987) 421–425
North-Holland, Amsterdam

SUBJECT INDEX

Amorphous Solids
Computer Simulation, Structure 94 (1987) 22
Ionic Conductivity, Dielectric Properties 94 (1987) 186
Neutron Diffraction, Structure 94 (1987) 11
Optical Properties, Ultraviolet Absorption 94 (1987) 222
Raman Spectra, Structure 94 (1987) 251
Semiconductors, Thin Films 94 (1987) 5
Structure, Computer Simulation 94 (1987) 402
Structure, Silicates 94 (1987) 133
Superconductors, Chalcogenides 94 (1987) 412

Auger Electron Spectroscopy
Diffusion, Metallic Glasses 94 (1987) 294

Borates
Density, Structure 94 (1987) 36
Nuclear Magnetic Resonance, Phosphates 94 (1987) 101

Calorimetry
Heat Capacity, Metallic Glasses 94 (1987) 62

Chalcogenides
Optical Properties, Electrical Properties and Relaxation 94 (1987) 283
Superconductors, Amorphous Solids 94 (1987) 412

Computer Simulation
Metallic Glasses, Glass Surface 94 (1987) 70
Structure, Amorphous Solids 94 (1987) 22
Structure, Amorphous Solids 94 (1987) 402
Thin Films, Structure 94 (1987) 28

Crystallization
Electron Microscopy, X-ray Diffraction 94 (1987) 163
Metallic Glasses, Thermodynamics 94 (1987) 88

Density
Borates, Structure 94 (1987) 36

Dielectric Properties
Ionic Conductivity, Amorphous Solids 94 (1987) 186

Diffusion
Metallic Glasses, Auger Electron Spectroscopy 94 (1987) 294

Electrical Properties and Relaxation
Chalcogenides, Optical Properties 94 (1987) 283

0022-3093/87/$03.50 © Elsevier Science Publishers B.V.
(North-Holland Physics Publishing Division)

Electron Microscopy
Crystallization, X-ray Diffraction 94 (1987) 163

Electron Spin Resonance
Fluorides, Structure 94 (1987) 302
Sol–Gel Method, Structure 94 (1987) 365

Electronic Conductivity
Tungstates, Oxides 94 (1987) 307

Electronic Structure
Phosphates, Photoconductivity 94 (1987) 271
Silicates, Structure 94 (1987) 144

EXAFS
Germanates, Phosphates 94 (1987) 336

Fluorides
Electron Spin Resonance, Structure 94 (1987) 302
Optical Properties, Phosphates 94 (1987) 45
Structure, X-ray Diffraction 94 (1987) 315

Germanates
Phosphates, EXAFS 94 (1987) 336

Germania
Raman Spectra, Structure 94 (1987) 56

Glass Surface
Metallic Glasses, Computer Simulation 94 (1987) 70

Hall Coefficient
Metallic Glasses, Thermoelectric Power 94 (1987) 345

Heat Capacity
Metallic Glasses, Calorimetry 94 (1987) 62

Infra-red Absorption
Pressure Effects, Silica 94 (1987) 238

Ion Exchange
Silicates, Optical Properties 94 (1987) 407

Ionic Conductivity
Amorphous Solids, Dielectric Properties 94 (1987) 186
Silicates, Mixed-alkali Effect 94 (1987) 181
Silicates, Structure 94 (1987) 175
Sol–Gel Method, Silicates 94 (1987) 387

Membranes
Sol–Gel Method, Oxides 94 (1987) 160

Metallic Glasses
Computer Simulation, Glass Surface 94 (1987) 70

Crystallization, Thermodynamics 94 (1987) 88
Diffusion, Auger Electron Spectroscopy 94 (1987) 294
Heat Capacity, Calorimetry 94 (1987) 62
Structure, X-ray Diffraction 94 (1987) 195
Thermal Conductivity, Stress Relaxation 94 (1987) 209
Thermoelectric Power, Hall Coefficient 94 (1987) 345
X-ray Diffraction, Structure 94 (1987) 203

Mixed-alkali Effect
Ionic Conductivity, Silicates 94 (1987) 181

Mössbauer Effect
Phosphates, Structure 94 (1987) 229

Neutron Diffraction
Amorphous Solids, Structure 94 (1987) 11

Non-oxide Glasses
Optical Properties, Structure 94 (1987) 353

Nuclear Magnetic Resonance
Phosphates, Borates 94 (1987) 101
Sol–Gel Method, Structure 94 (1987) 374
Structure, Oxides 94 (1987) 122

Nucleation
Silicates, Raman Spectra 94 (1987) 216

Optical Properties
Amorphous Solids, Ultraviolet Absorption 94 (1987) 222
Chalcogenides, Electrical Properties and Relaxation 94 (1987) 283
Fluorides, Phosphates 94 (1987) 45
Non-oxide Glasses, Structure 94 (1987) 353
Silicates, Ion Exchange 94 (1987) 407

Oxides
Electronic Conductivity, Tungstates 94 (1987) 307
Nuclear Magnetic Resonance, Structure 94 (1987) 122
Sol–Gel Method, Membranes 94 (1987) 160

Phosphates
Fluorides, Optical Properties 94 (1987) 45
Germanates, EXAFS 94 (1987) 336
Mössbauer Effect, Structure 94 (1987) 229
Nuclear Magnetic Resonance, Borates 94 (1987) 101
Photoconductivity, Electronic Structure 94 (1987) 271

Photoconductivity
Phosphates, Electronic Structure 94 (1987) 271

Pressure Effects
Infra-red Absorption, Silica 94 (1987) 238

Raman Spectra
Germania, Structure 94 (1987) 56
Nucleation, Silicates 94 (1987) 216
Structure, Amorphous Solids 94 (1987) 251

Semiconductors
Amorphous Solids, Thin Films 94 (1987) 5
Silicates, Structure 94 (1987) 261

Silica
Pressure Effects, Infra-red Absorption 94 (1987) 238
X-ray Diffraction, Structure 94 (1987) 276

Silicates
Electronic Structure, Structure 94 (1987) 144
Ionic Conductivity, Mixed-alkali Effect 94 (1987) 181
Ionic Conductivity, Structure 94 (1987) 175
Nucleation, Raman Spectra 94 (1987) 216
Optical Properties, Ion Exchange 94 (1987) 407
Semiconductors, Structure 94 (1987) 261
Sol–Gel Method, Ionic Conductivity 94 (1987) 387
Structure, Amorphous Solids 94 (1987) 133

Sol–Gel Method
Electron Spin Resonance, Structure 94 (1987) 365
Nuclear Magnetic Resonance, Structure 94 (1987) 374
Oxides, Membranes 94 (1987) 160
Silicates, Ionic Conductivity 94 (1987) 387

Stress Relaxation
Metallic Glasses, Thermal Conductivity 94 (1987) 209

Structure
Amorphous Solids, Neutron Diffraction 94 (1987) 11
Computer Simulation, Amorphous Solids 94 (1987) 22
Computer Simulation, Amorphous Solids 94 (1987) 402
Density, Borates 94 (1987) 36
Electron Spin Resonance. Fluorides 94 (1987) 302
Electronic Structure, Silicates 94 (1987) 144
Fluorides, X-ray Diffraction 94 (1987) 315
Germania, Raman Spectra 94 (1987) 56
Ionic Conductivity, Silicates 94 (1987) 175
Metallic Glasses, X-ray Diffraction 94 (1987) 195
Metallic Glasses, X-ray Diffraction 94 (1987) 203
Nuclear Magnetic Resonance, Oxides 94 (1987) 122
Optical Properties, Non-oxide Glasses 94 (1987) 353
Phosphates, Mössbauer Effect 94 (1987) 229
Raman Spectra, Amorphous Solids 94 (1987) 251
Semiconductors, Silicates 94 (1987) 261
Silica, X-ray Diffraction 94 (1987) 276
Silicates, Amorphous Solids 94 (1987) 133
Sol–Gel Method, Electron Spin Resonance 94 (1987) 365
Sol–Gel Method, Nuclear Magnetic Resonance 94 (1987) 374
Thin Films, Computer Simulation 94 (1987) 28

Superconductors
Chalcogenides, Amorphous Solids 94 (1987) 412

Thermal Conductivity
Metallic Glasses, Stress Relaxation 94 (1987) 209

Thermodynamics
Metallic Glasses, Crystallization 94 (1987) 88

Thermoelectric Power
Metallic Glasses, Hall Coefficient 94 (1987) 345

Thin Films
Amorphous Solids, Semiconductors 94 (1987) 5
Computer Simulation, Structure 94 (1987) 28

Tungstates
Electronic Conductivity, Oxides 94 (1987) 307

Ultraviolet Absorption
Optical Properties, Amorphous Solids 94 (1987) 222

X-ray Diffraction
Crystallization, Electron Microscopy 94 (1987) 163
Fluorides, Structure 94 (1987) 315
Metallic Glasses, Structure 94 (1987) 195
Metallic Glasses, Structure 94 (1987) 203
Silica, Structure 94 (1987) 276